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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-11-18-27** **Date: 10/06/2020**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ravindra Nagara School in Ward No 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J, #01, Shree Nilaya, Behind Rangamandira, Bagalagunte, Bengalore-560073.
Customer's Reference	:	EE/DD/W.O/461/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-20
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	03/06/2020	10/06/2020	151.92 X 149.03 X 151.24	22639	9.091	541.3	23.9	23.2
2	Plinth Beam Concrete	M25	03/06/2020	10/06/2020	150.47 X 151.87 X 149.17	22851	8.312	522.5	22.9	
3	Plinth Beam Concrete	M25	03/06/2020	10/06/2020	151.95 X 150.55 X 149.87	22877	8.582	524.1	22.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/07/2020

Lab ID	:	**CP-2020-11-18-27**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ravindra Nagara School in Ward No 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J, #01, Shree Nilaya, Behind Rangamandira, Bagalagunte, Bengalore-560073.
Customer's Reference	:	EE/DD/W.O/461/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-20
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	03/06/2020	01/07/2020	150.20 X 149.95 X 149.75	22524	8.982	620.5	27.5	27.4
2	Plinth Beam Concrete	M25	03/06/2020	01/07/2020	149.63 X 150.85 X 150.03	22572	8.628	595.6	26.4	
3	Plinth Beam Concrete	M25	03/06/2020	01/07/2020	151.91 X 151.99 X 149.69	23089	8.678	650.8	28.2	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-11-18-27 **Date: 13-06-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ravindra Nagara School in Ward No 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J, #01, Shree Nilaya, Behind Rangamandira, Bagalagunte, Bengalore-560073.
Customer's Reference	:	EE/DD/W.O/461/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-18-27 **Date: 18/06/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ravindra Nagara School in Ward No 13 Mallasandra Shettyhalli Sub Division.

Agency : Sri.Kumar B.J, #01, Shree Nilaya, Behind Rangamandira, Bagalagunte, Bengalore-560073.

Customer's Reference : EE/DD/W.O/461/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-06-20

Customer ID : GF Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	GF Column Concrete	M25	11/06/2020	18/06/2020	150.98 X 151.72 X 149.84	22907	9.091	544.9	23.8	22.9
2	GF Column Concrete	M25	11/06/2020	18/06/2020	151.29 X 151.01 X 150.07	22846	8.312	525.2	23.0	
3	GF Column Concrete	M25	11/06/2020	18/06/2020	149.55 X 151.85 X 150.41	22708	8.582	499.7	22.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-11-18-27 **Date: 09/07/2020**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ravindra Nagara School in Ward No 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J, #01, Shree Nilaya, Behind Rangamandira, Bagalagunte, Bengalore-560073.
Customer's Reference	:	EE/DD/W.O/461/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-06-20
Customer ID	:	GF Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	GF Column Concrete	M25	11/06/2020	09/07/2020	150.94 X 150.26 X 149.32	22680	8.982	630.1	27.8	27.6
2	GF Column Concrete	M25	11/06/2020	09/07/2020	150.02 X 150.83 X 150.92	22628	8.628	592.7	26.2	
3	GF Column Concrete	M25	11/06/2020	09/07/2020	149.10 X 151.20 X 149.50	22543	8.678	652.6	29.0	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು-560 ಯ
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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 19-06-20

Lab ID	:	CP-2020-11-18-27
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ravindra Nagara School in Ward No 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J, #01, Shree Nilaya, Behind Rangamandira, Bagalagunte, Bengalore-560073.
Customer's Reference	:	EE/DD/W.O/461/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-06-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-06-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	203	202	16320	33.571	2057.0	2046.9	Not less than 1800Kg/m^3
2	404	198	203	16238	32.839	2022.3		
3	401	201	203	16362	33.727	2061.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2020-11-18-27

Date: 19-06-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	199	201	
2	403	200	199	
3	404	200	200	
4	403	200	201	
5	401	200	200	
6	403	203	200	
7	403	203	202	
8	404	203	199	
9	400	200	200	
10	402	201	203	
11	404	199	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	400	203	201	
13	401	199	199	
14	403	201	202	
15	401	201	202	
16	401	201	201	
17	400	199	202	
18	399	201	201	
19	399	202	200	
20	402	202	200	
Average of 20	402	201	201	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ.

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Lab ID : CP-2020-11-18-27

Date: 19-06-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	199	79777	375.7	4.7	4.7
2	403	200	80698	388.8	4.8	
3	404	200	80815	358.1	4.4	
4	403	200	80637	364.0	4.5	
5	401	200	80225	387.6	4.8	
6	403	203	81640	379.7	4.7	
7	403	203	81604	384.9	4.7	
8	404	203	81957	385.9	4.7	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಚೆಟ್ಟಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹ
ಪೈಪತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳ

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Lab ID : **CP-2020-11-18-27** **Date: 19-06-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	199	79777	375.7	4.7	4.7
2	403	200	80698	388.8	4.8	
3	404	200	80815	358.1	4.4	
4	403	200	80637	364.0	4.5	
5	401	200	80225	387.6	4.8	
6	403	203	81640	379.7	4.7	
7	403	203	81604	384.9	4.7	
8	404	203	81957	385.9	4.7	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳ

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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